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(54) PRODUCTION OF GALVANIZED STEEL
 SHEET HAVING RESISTANCE TO
 BLACKENING

(57) Abstract:

PURPOSE: To produce a plated steel sheet having excellent resistance to blackening by treating a hot dip galvanized steel sheet which is performed by Zn-alloy hot dipping on the surface, by Ni ion and Co ion solns.

CONSTITUTION: A hot dip galvanized steel sheet subjected to hot dipping of zinc or zinc alloy on the

surface is treated with an Ni ion or Co ion soln. or a soln. in which both ions are mixed. The soln. contg. the Ni ion or Co ion may be a acidic bath of sulfate, hydrochloride or the like or an alkaline bath contg. a complexing agent such as ammonia. The treatment is accomplished at about 1W20g/l concn. of metallic ions in terms of Ni or Co, about 30W60°C treatment temp. and about 1W4 or about 11W13.5pH. The steel sheet is treated by short-term dipping or spraying and the amt. of the Ni or Co to be adhered thereon is preferably about 0.3W1.5mg/m² and if necessary, the steel sheet is further subjected to chromate treatment.

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